

09/16/1994.

**PI 592332. *Helianthus maximilianii* Schrader**

Wild. MAX-2323; Ames 22198. Collected 09/12/1994 in Manitoba, Canada. Latitude 49 deg. 58' 53'' N. Longitude 100 deg. 35' 58'' W. Elevation 471 m. 5.4 km west and 0.8 km south of Harding, intersection of Hwy. 259 W and Hwy. 21 S. Brown, sandy-loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, no salinity, well drained, tillage not affected by stoniness. Cropland vegetation. Dense population in roadside ditch. Uniform population, effective population size - several hundred plants. Mainly single-headed plants. One plant had multiple heads, grayish bracts, narrow, folded leaves, more *H. maximilianii* looking. No apparent insect or disease damage.

**PI 592333. *Helianthus maximilianii* Schrader**

Wild. MAX-2325; Ames 22199. Collected 09/13/1994 in Manitoba, Canada. Latitude 49 deg. 42' 33'' N. Longitude 99 deg. 57' 44'' W. Elevation 409 m. 14.0 km south of Brandon, Hwy. 10 S. Brown, loam to clay, silt soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, no salinity, moderate to well drained, tillage not affected by stoniness. Cropland and grassland vegetation. Scattered population in roadside ditch. Uniform population, effective population size - 500 plants. Typical *H. maximilianii* flowering with multiple heads along stem, red stem, folded, gray leaves. Past peak flowering, good seed set. No disease damage.

**PI 592334. *Helianthus maximilianii* Schrader**

Wild. Ames 22200; MAX-2326. Collected 09/13/1994 in Manitoba, Canada. Latitude 49 deg. 22' 26'' N. Longitude 100 deg. 0' 51'' W. Elevation 478 m. 4.3 km south of Minto, Hwy. 10 S. Black-brown, loam to clay, silt soil, level area of roadside ditch, topography - plain (level), no salinity, moderate to well drained, tillage not affected by stoniness. Cropland and grassland vegetation. Scattered population along both sides of road in roadside ditch, many plants also along edge of wheat field (stubble). Uniform population, effective population size - 175 plants. Many single headed plants, smaller heads. Past peak flowering, good seed set. No apparent insect or disease damage. Associated wild species: *Solidago*, *Aster*, *Cirsium*.

**PI 592335. *Helianthus maximilianii* Schrader**

Wild. Ames 22201; MAX-2332. Collected 09/13/1994 in Manitoba, Canada. Latitude 49 deg. 29' 10'' N. Longitude 100 deg. 31' 58'' W. Elevation 444 m. 0.3 km northwest of Hartney, intersection of Hwy. 21 N and Hartney exit. Brown, sandy soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low salinity, well drained, tillage not affected by stoniness. Cropland and grassland vegetation. Scattered population in roadside ditch and along corner of wheat field (stubble). Uniform population, effective population size - several hundred plants. Typical plants but somewhat short, gray, folded leaves, across from cultivated sunflower field. No apparent insect or disease damage. Associated wild species: *Aster*, *Cirsium*, *Medicago*, *Solidago*.

**PI 592336. *Helianthus maximilianii* Schrader**

Wild. MAX-2333; Ames 22202. Collected 09/13/1994 in Manitoba, Canada. Latitude 49 deg. 44' 20'' N. Longitude 100 deg. 13' 41'' W. Elevation 440 m. 15.6 km south and 18.4 km west of Brandon, Hwy. 349 W. Brown, sandy soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low salinity, well drained, tillage not affected by stoniness. Cropland and grassland vegetation. Scattered population along both sides of road in roadside ditch, extending for ca. 100 m. Uniform population, effective population size - several hundred plants. Most plants short, single-headed. Past peak flowering, probably good seed set, many seeds already shattered. No apparent insect or